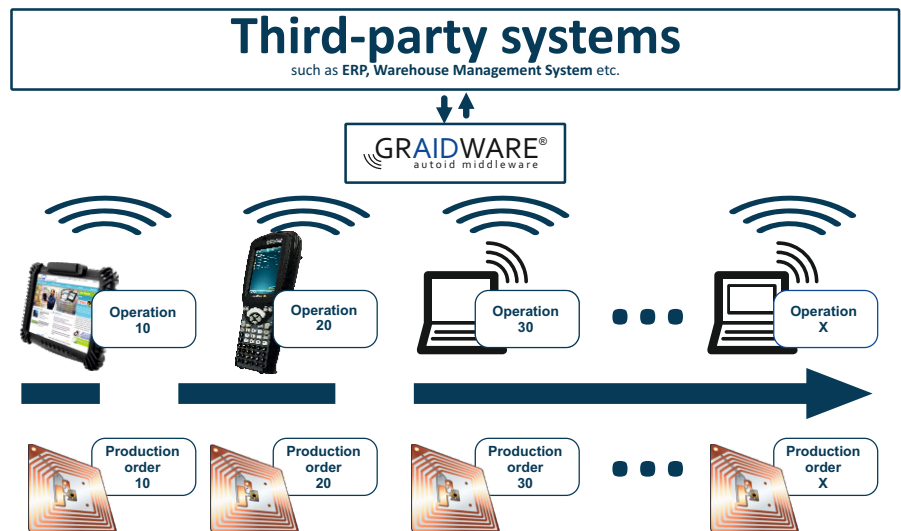Product description
Attaching electronic records

Description

A product is recorded electronically in the production processes by means of RFID identification and can be traced throughout the entire production process. Data regarding properties, production steps and parameters, as well as production times, are recorded throughout the entire manufacturing process and are available at each work station for information or control purposes.

Depending on the production step, the electronic document attached can be enhanced by information specified for each process step (for instance, in the case of textiles – printed, tailored, sewn, made available for shipment etc.). At work stations or transitional areas, the process step data can be entered in the accounts of third-party systems, such as ERP, PPC, WMS, etc.

In this way, the attached electronic document is intended to control the processes in the production, as well as to give a complete digital representation of the product and order information (order state, customer information, delivery volumes, photos/graphics, circuit diagrams, drawings, protocols, documentations, technical data sheets, etc.) in the manufacturing. As a result, these documents contribute to traceability, analysis and quality assurance.

Components

Hardware	Software	Optional
▪ Project-related	▪ GRAIDWARE® Middleware Basis	▪ Extensions required (project-specific)

Advantages

- Extraordinary transparency in the production process
- Changes in information (such as a change in ranking of orders or of the product production steps) become immediately valid in all production areas
- Enables immediate response to order changes in the manufacturing
- Automatic acknowledgement of production progress
- Sequential faults in production flow are avoided by continuous supervision

Examples of application

- Production processes/ manufacturing
- Intra-plant logistics

Functions

- Order management (creation and removal of orders)
- Order splitting/ bundling (for instance, if manufacturing is executed over several days)
- Inventory messages to third-party system (ERP, PPS, …)
- Progress recording and supervision
- Acknowledgement of production steps (e.g. as status message for customers, sent to the web shop)
- Visualisation at terminals (order preparation, order state, inventory state, extended product information and notes)

System requirements

- The GRAIDWARE® software requirements apply.

Licensing

- GRAIDWARE® middleware Basis
- Optional additional modules when using specific extensions of the solution (e.g. RFID gate, handheld connector, machine connection, label printing, etc.)